

**Things to Know, Understand and Do
For Chapter 1 and 2 Pt 1 (Basic Stuff): Basic Building Materials**

By the end of Chapters 1 and 2, you should

Know how to...
Define chemistry
Give the defining points of matter
Recognize the different states of matter (solid, liquid and gas) and give their characteristics
List commonly used physical properties of matter and substances
Identify if properties are intensive or extensive
Explain the difference between chemical and physical changes and give examples of them.
Describe a basic chemical reaction (4 lines of evidence)
Tell when a chemical reaction has taken place as well whether it was exothermic or endothermic
Decipher whether something is an element or compound
How to decipher basic chemical names and symbols
Explain the significance of a chemical formula
Define the terms element, compound, and aqueous
Explain the roles of Mendeleev development of the periodic table
Describe the difference of a group or a period
Describe the modern periodic table, giving properties of elements belonging to groups 1, 2, 17, 18, transition, and rare earth metals
Locate and name the four blocks on the periodic table, as well as the alkali metals, alkaline earth metals, halogens, and the noble gases

understand...
The Law of Conservation of Matter
How the periodic table was organized
The patterns related to elemental properties
How Mendeleev arranged his table, and how he was able to predict the existence and properties of undiscovered elements

Ch 1 and 2 Homework

Due the day before the test. Must be completed neatly. Use full sentences and/or show all work in calculations for full credit where applicable. This assignment may be passed in anytime before the test though. Students may also elect to pass in questions in smaller chunks during the course of our coverage of the chapter if that is more conducive to their learning style.

Read Chapters 1 and 2 (pgs 7-10 and 22 – 49)

Do the following problems:

pg 8 Q 1
Pg 21 Q 2
pg 26 Q 1, 3, 6
pg 30 Q 1, 5
pg 40 Q 2, 5,
pg 48 Q 1, 4, 6, 8
pg 49 Q 4